	DFS	BFS
Missionaries: path	Solution path: M on left:3 C on left:3 M on right:0 C on right:0 boat is on the left. M on left:2 C on left:2 M on right:1 C on right:1 boat is on the right. M on left:3 C on left:2 M on right:0 C on right:1 boat is on the left. M on left:0 C on left:2 M on right:3 C on right:1 boat is on the right. M on left:2 C on left:2 M on right:1 C on right:1 boat is on the left. M on left:1 C on left:1 M on right:2 C on right:2 boat is on the right.	Solution path: M on left:3 C on left:3 M on right:0 C on right:0 boat is on the left. M on left:2 C on left:2 M on right:1 C on right:1 boat is on the right. M on left:3 C on left:2 M on right:0 C on right:1 boat is on the left. M on left:1 C on left:1 M on right:2 C on right:2 boat is on the right. M on left:3 C on left:1 M on right:0 C on right:2 boat is on the left. M on left:0 C on left:1 M on right:3 C on right:2 boat is on the right.

	M on left:3 C on left:1 M on right:0 C on right:2 boat is on the left. M on left:0 C on left:1 M on right:3 C on right:2 boat is on the right. M on left:1 C on left:1 M on right:2 C on right:2 boat is on the left. M on left:0 C on left:0 M on right:3 C on right:3 boat is on the right.	M on left:1 C on left:1 M on right:2 C on right:2 boat is on the left. M on left:0 C on left:0 M on right:3 C on right:3 boat is on the right. Length of solution path found: 7 edges 10 states expanded. MAX_OPEN_LENGTH = 2
Missionaries: length of the path	9 edges	7 edges
Missionaries: the number of nodes expanded	10 states expanded	10 states expanded
Farmer, Fox, Chicken, and Grain: path	Solution path: Farmer is on left Fox is on left Chicken is on left Grain is on left Boat is on the left. Farmer is on right Fox is on left	Solution path: Farmer is on left Fox is on left Chicken is on left Grain is on left Boat is on the left. Farmer is on right Fox is on left

	Chicken is on right Grain is on left Boat is on the right.	Chicken is on right Grain is on left Boat is on the right.
	Farmer is on left Fox is on left Chicken is on right Grain is on left Boat is on the left.	Farmer is on left Fox is on left Chicken is on right Grain is on left Boat is on the left.
	Farmer is on right Fox is on right Chicken is on right Grain is on left Boat is on the right.	Farmer is on right Fox is on left Chicken is on right Grain is on right Boat is on the right.
	Farmer is on left Fox is on right Chicken is on left Grain is on left Boat is on the left.	Farmer is on left Fox is on left Chicken is on left Grain is on right Boat is on the left.
	Farmer is on right Fox is on right Chicken is on left Grain is on right Boat is on the right.	Farmer is on right Fox is on right Chicken is on left Grain is on right Boat is on the right.
	Farmer is on left Fox is on right Chicken is on left Grain is on right Boat is on the left.	Farmer is on left Fox is on right Chicken is on left Grain is on right Boat is on the left.
	Farmer is on right Fox is on right Chicken is on right Grain is on right	Farmer is on right Fox is on right Chicken is on right Grain is on right

	Boat is on the right.	Boat is on the right.
Farmer, Fox, Chicken, and Grain: length of the path	7 edges	7 edges
Farmer, Fox, Chicken, and Grain: the number of nodes expanded	7 states expanded	9 states expanded
4-Disk Towers of Hanoi: path	Solution path: [[4, 3, 2, 1] ,[] ,[]] [[4, 3, 2] ,[1] ,[]] [[4, 3] ,[1] ,[2]] [[4, 3, 1] ,[] ,[2]] [[4, 3] ,[] ,[2, 1]] [[4] ,[3] ,[2, 1]] [[4, 1] ,[3] ,[2]] [[4] ,[3, 1] ,[2]] [[4, 2] ,[3, 1] ,[]] [[4, 2, 1] ,[3] ,[]] [[4, 2] ,[3] ,[1]] [[4] ,[3, 2] ,[1]] [[4, 1] ,[3, 2] ,[]] [[4] ,[3, 2, 1] ,[]] [[] ,[3, 2, 1] ,[4]] [[1] ,[3, 2] ,[4]] [[] ,[3, 2] ,[4, 1]] [[2] ,[3] ,[4, 1]] [[2, 1] ,[3] ,[4]] [[2] ,[3, 1] ,[4]] [[] ,[3, 1] ,[4, 2]] [[1] ,[3] ,[4, 2]] [[] ,[3] ,[4, 2, 1]] [[3] ,[] ,[4, 2, 1]] [[3, 1] ,[] ,[4, 2]] [[3] ,[1] ,[4, 2]] [[3, 2] ,[1] ,[4]] [[3, 2, 1] ,[] ,[4]] [[3, 2] ,[] ,[4, 1]] [[3] ,[2] ,[4, 1]] [[3, 1] ,[2] ,[4]] [[3] ,[2, 1] ,[4]] [[] ,[2, 1] ,[4, 3]] [[1] ,[2] ,[4, 3]] [[] ,[2] ,[4, 3, 1]] [[2] ,[] ,[4, 3, 1]]	Solution path: [[4, 3, 2, 1] ,[] ,[]] [[4, 3, 2] ,[1] ,[]] [[4, 3] ,[1] ,[2]] [[4, 3, 1] ,[] ,[2]] [[4, 3] ,[] ,[2, 1]] [[4] ,[3] ,[2, 1]] [[4, 1] ,[3] ,[2]] [[4, 1] ,[3, 2] ,[]] [[4] ,[3, 2, 1] ,[]] [[] ,[3, 2, 1] ,[4]] [[1] ,[3, 2] ,[4]] [[] ,[3, 2] ,[4, 1]] [[2] ,[3] ,[4, 1]] [[2, 1] ,[3] ,[4]] [[2, 1] ,[] ,[4, 3]] [[2] ,[1] ,[4, 3]] [[] ,[1] ,[4, 3, 2]] [[1] ,[] ,[4, 3, 2]] [[] ,[] ,[4, 3, 2, 1]]

	[[2, 1] ,[] ,[4, 3]] [[2] ,[1] ,[4, 3]] [[] ,[1] ,[4, 3, 2]] [[1] ,[] ,[4, 3, 2]] [[] ,[] ,[4, 3, 2, 1]]	
4-Disk Towers of Hanoi: length of the path	40 edges	18 edges
4-Disk Towers of Hanoi: the number of nodes expanded	40 states expanded	70 states expanded